Jeensilc® Specialty Silicones
Jeelux® Silicone/Ester Blends

YOU CAN COUNT ON US!

24 Madison Road, Fairfield NJ 07004
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Email: info@jeen.com
Web: www.jeen.com
JEESILC® PS-CMBF

INCI: Cyclopentasiloxane, Bis-Vinyl Dimethicone/Dimethicone Copolymer

JEESILC® PS-CMBF will deliver an increased play time with a substantive, slow spreading application. It can enhance your optical blurring and line filling products while providing a powder finish. JEESILC® PS-CMBF is a clear gel of Cyclopentasiloxane that provides a very light spreading, silky feel to emulsions and anhydrous products.

Have peace of mind when you formulate! JEE holds application patents for all ingredients utilizing Bis-Vinyl Dimethicone/Dimethicone Copolymer, you have the freedom to formulate without infringing on application patents. Use this silicone polymer to increase the viscosity of non-polar solvents, thus enhancing the feel and spreadability. The linear, non-crosslinked nature of the unique Copolymer leads to one of the key benefits-ease of incorporation into the oil phase of emulsions without high shear agitation.

Product Specifications:

Appearance @ 25°C
Clear Gel

Viscosity, cps @ 25°C
(Brookfield LVT, Sp.#4, @ 0.6 rpm):
175,000 – 250,000

General Handling and Storage:
• Store in Clean Dry Area
• Ambient Room Temperature

Standard Packaging:
400 lb Drum (181.43 kg)
33 lb Pail (14.96 kg)

Procedure:
1) Add Phase A and Mix
2) Add Phase B and homogenize
3) Add Phase C while mixing
4) Heat and batch 65–70°C until waxes are melted
5) Add Phase D and Homogenize until mixture is homogenous

Formulating with JEESILC® Silicone Gels:
Featuring: JEESILC® PS-CMBF

The JEESILC® line! The latest in our Patented Specialty Silicone Series of Quality Ingredients!
Formulating with JEESILC® Silicone Gels:
Featuring: JEESILC® PS-DMBF

The JEESILC® line! The latest in our Patented Specialty Silicone Series of Quality Ingredients!

**JEESILC® PS-DMBF**

**INCI:** Dimethicone, Bis-Vinyl Dimethicone/Dimethicone Copolymer

**Jeensilc® PS-DMBF** provides a substantive texture with a lengthy play time. It will produce long lasting, skin conditioning emolliency that increases elasticity and softness of the skin. JEESILC® PS-DMBF is a clear gel of Dimethicone fluid that provides a non-volatile moisturizing film for skin, hair and lips. Use this additive to impart a silky feel to emulsions and anhydrous applications.

Have peace of mind when you formulate! JEEN holds application patents for all ingredients utilizing Bis-Vinyl Dimethicone/ Dimethicone Copolymer, you have the freedom to formulate without infringing on application patents. Use this silicone polymer to increase the viscosity of non-polar solvents, thus enhancing the feel and spreadability. The linear, non-crosslinked nature of the unique Copolymer leads to one of the key benefits - ease of incorporation into the oil phase of emulsions without high shear agitation.

**Benefits**
- Patented, Non-Crosslinked Polymer allows freedom to formulate
- Uniform spread with no balling upon application
- Non-Volatile Gel delivers Silky, Smooth finish
- Low Viscosity Gel allows ease of use for less formulation and production time

**Product Specifications:**

**Appearance @ 25°C**
Clear Gel

**Viscosity, cps @ 25°C**
(Brookfield LVT, Sp.#4, @ 0.6 rpm):
175,000 – 250,000

**General Handling and Storage:**
- Store in Clean Dry Area
- Ambient Room Temperature

**Standard Packaging:**
- 400 lb Drum (181.43 kg)
- 33 lb Pail (14.96 kg)

You Can Count On Us!…..Clearly your choice for Specialty Polymers…..

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**Aquaelastomer 40% H2O DMBF J6-89JM**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredients</th>
<th>INCI Nomenclature</th>
<th>%</th>
</tr>
</thead>
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<tr>
<td>A</td>
<td>JEESILC DMBF AQUA BASE</td>
<td>Dimethicone, Bis-Vinyl Dimethicone/Dimethicone Copolymer, Cetyl PEG/PPG-10 Dimethicone</td>
<td>8.0</td>
</tr>
<tr>
<td>A</td>
<td>JEECIDE® CAP-5</td>
<td>Phenoxyethanol &amp; Caprylyl Glycol, Potassium Sorbate &amp; Hexylene glycol</td>
<td>1.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeenate 3H</td>
<td>Polyethylene</td>
<td>3.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeenate 5H</td>
<td>Polyethylene</td>
<td>8.0</td>
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<tr>
<td>A</td>
<td>Jeesilc PDS - 2</td>
<td>Dimethicone</td>
<td>8.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeesilc PS-DMBF</td>
<td>Dimethicone, Bis-Vinyl Dimethicone/Dimethicone Copolymer</td>
<td>15.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeesilc DM-153</td>
<td>DIMETHICONE, DIMETHICONOL</td>
<td>15.3</td>
</tr>
</tbody>
</table>

**B**
- DI Water

**Procedure:**
1.) Mix Phase A while increasing temperature to 80-85°C
2.) Mix Phase B and heat to 80-85°C
3.) Add Phase B to Phase A mix until homogenous
4.) Pour at 80-85°C and chill
**JEEN International Corporation**

**Formulating with JEESILC® Silicone Gels:**
**Featuring: JEESILC® PS-VHBF**

**The JEESILC® line! The latest in our Patented Specialty Silicone Series of Quality Ingredients!**

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### Product Description

**JEESILC® PS-VHBF**

**INCI:** Bis-Vinyl Dimethicone/Dimethicone Copolymer (and) Isododecane

**JEESILC® PS-VHBF** is the fastest drying of JEEN’s Silicone Polymer Technology. This clear Isododecane gel adds a light spreading, silky feel to emulsion and anhydrous products. Ideal for a matte finish, **JEESILC® PS-VHBF** will enhance the feel of your formulation. Optical blurring is made possible while maintaining the skin natural feel. Reduce defattens of the skin which is typically associated with formulations containing Isododecane. Have peace of mind when you formulate! JEEN holds application patents for all ingredients utilizing Bis-Vinyl Dimethicone/ Dimethicone Copolymer, you have the freedom to formulate without infringing on application patents. Use this silicone polymer to increase the viscosity of non-polar solvents, thus enhancing the feel and spreadability. The linear, non-crosslinked nature of the unique Copolymer leads to one of the key benefits—ease of incorporation into the oil phase of emulsions without high shear agitation.

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### Applications

- Color Cosmetics
- Skin Care
- Hair Care
- Sun Care
- AP/DEO
- Treatment Serums

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### Suggested Formulation

**Hand & Body Moisturizer J4-19B**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredients</th>
<th>INCI Nomenclature</th>
<th>Control</th>
<th>JEESILC</th>
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<tbody>
<tr>
<td>A</td>
<td>Deionized Water</td>
<td>Water</td>
<td>81.0</td>
<td>77.0</td>
</tr>
<tr>
<td>A</td>
<td>UltroSil® 10</td>
<td>C12-15 Alkylbenzene</td>
<td>0.40</td>
<td>0.40</td>
</tr>
<tr>
<td>B</td>
<td>Stearic Acid</td>
<td>Stearic Acid</td>
<td>3.50</td>
<td>3.50</td>
</tr>
<tr>
<td>B</td>
<td>Glycerol (Glycol</td>
<td>Glycerol</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>C</td>
<td>C12-15 Alkyl Benzoate</td>
<td>C12-15 Alkyl Benzoate</td>
<td>7.00</td>
<td>7.00</td>
</tr>
<tr>
<td>D</td>
<td>Polyethylene</td>
<td>Polyethylene</td>
<td>0.50</td>
<td>0.50</td>
</tr>
<tr>
<td>D</td>
<td>Tetraethanolamine</td>
<td>Tetraethanolamine</td>
<td>0.60</td>
<td>0.60</td>
</tr>
<tr>
<td>D</td>
<td>JEECHEM® CAP-5</td>
<td>Phenoxyethanol &amp; Caprylyl Glycol</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>D</td>
<td>Polycarbomer 80</td>
<td>Polycarbomer 80</td>
<td>0.50</td>
<td>0.50</td>
</tr>
<tr>
<td>D</td>
<td>JEECHEM® FS-102</td>
<td>Hexadecyl Glacio &amp; Peg-3 Dimethyl Glucamide</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>D</td>
<td>Fragrance</td>
<td>Fragrance</td>
<td>0.50</td>
<td>0.50</td>
</tr>
<tr>
<td>E</td>
<td>JEESILC® PS-DMBF</td>
<td>Dimethicone &amp; Bis-Vinyl Dimethicone/Dimethicone Copolymer</td>
<td>X</td>
<td>4.00</td>
</tr>
<tr>
<td>E</td>
<td>JEECHEM® DMIIPS</td>
<td>Isostearate &amp; Dimethicone &amp; Bis-Vinyl Dimethicone Copolymer</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>F</td>
<td>Algae Extract</td>
<td>Algae Extract</td>
<td>1.50</td>
<td>1.50</td>
</tr>
<tr>
<td>G</td>
<td>FD&amp;C Blue #1</td>
<td>FD&amp;C Blue #1</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>H</td>
<td>B-grade Yellow</td>
<td>B-grade Yellow</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Procedure:**

1. Add D.I. Water and sprinkle in UltraSil® 10 using propeller mixing. Heat Phase A to 70°C.
2. Add Phase B ingredients one at a time to the batch and maintains 70°C.
3. Switch to sweep agitation and add Phase C. Mix well.
4. Pre-mix Phase D in a side vessel.
5. Cool batch to 50-55°C and add pre-mix Phase D.
6. Add Phase E and mix well.
7. Add Phase F.
8. Add Phase G.
9. Cool batch to RT.

---

### Product Specifications:

**Appearance:**

Clear Gel

**Viscosity, cps @ 25°C:**

(Brookfield LVT,Sp.#4, @ 0.6 rpm)

175,000 – 250,000

**General Handling and Storage:**

- Store in Clean Dry Area
- Ambient Room Temperature

**Standard Packaging:**

- 400 lb Drum (181.43 kg)
- 33 lb Pail (14.96 kg)

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**You Can Count On Us!…..Clearly your choice for Specialty Polymers…..**
Formulating with JEESILC® Silicone Gels: 
Featuring: JEESILC® PS-CMLV

The JEESILC® line! The latest in our Patented Specialty Silicone Series of Quality Ingredients!

**Product Description**

**JEESILC® PS-CMLV**  
**INCI:** Cyclopentasiloxane, Bis-Vinyl Dimethicone/Dimethicone Copolymer

**JEESILC® PS-CMLV** is a volatile, viscous liquid with a high concentration of Bis-Vinyl Dimethicone/Dimethicone Copolymer. Condition the skin and provide a glossy finish while maintaining a light feel. **JEESILC® PS-CMLV** will boost film integrity without leaving the skin feeling tacky and heavy. This thin film matrix will maintain moisturization and enhance elasticity in your formulations. **JEESILC® PS-CMLV** is a gelled version of Cyclopentasiloxane that combines a lighter feel with high gloss and substantivity.

Have peace of mind when you formulate! JEEN holds application patents for all ingredients utilizing Bis-Vinyl Dimethicone/Dimethicone Copolymer, you have the freedom to formulate without infringing on application patents. Use this silicone polymer to increase the viscosity of non-polar solvents, thus enhancing the feel and spreadability. The linear, non-crosslinked nature of the unique Copolymer leads to one of the key benefits-ease of incorporation into the oil phase of emulsions without high shear agitation.

**Applications**

- Color Cosmetics  
- Sun Care  
- Hair Care  
- AP/DEO  
- Skin Care

**Benefits:**

- Provides Enhanced Film Properties to Skin and Hair  
- Delivers a Non-Volatile, Regenerating, High Gloss with Extended Wear Profile  
- Offers an Elegant, Rich Feeling Film

**Product Specifications:**

Appearance @ 25°C:  
Clear to Light Straw Colored Viscous Liquid

Viscosity, cps @ 25°C:  
7,000 – 15,000

Color (Gardner):  
1.0 Max.

**General Handling and Storage:**

- Store in Clean Dry Area  
- Ambient Room Temperature

**Standard Packaging:**

- 400 lb Drum (181.43 kg)  
- 33 lb Pail (14.96 kg)

**Suggested Formulation**

**Soft Skin Facial Cleanser J1/13B**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredients</th>
<th>INCI Nomenclature</th>
<th>%</th>
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<tr>
<td>A</td>
<td>DI Water</td>
<td>Water</td>
<td>26.2</td>
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<tr>
<td>A</td>
<td>Glycerin</td>
<td>Glycerin</td>
<td>3.0</td>
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<tr>
<td>B</td>
<td>JEEULATE ES-270</td>
<td>Sodium Lauryl Sulfate 70%</td>
<td>10.0</td>
</tr>
<tr>
<td>B</td>
<td>JEEERIC C0X-38</td>
<td>Disodium Cocoamphocarboxy Glycinolate</td>
<td>6.0</td>
</tr>
<tr>
<td>B</td>
<td>JEEERIC CAB-LC</td>
<td>Cocomidopropyl Betaine</td>
<td>6.0</td>
</tr>
<tr>
<td>B</td>
<td>JEEMATE 6000DS</td>
<td>PEG-150 Distearate</td>
<td>0.4</td>
</tr>
<tr>
<td>B</td>
<td>JEECHEM EGMS</td>
<td>Glycol Stearate</td>
<td>1.0</td>
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<tr>
<td>C</td>
<td>Structure Plus (20% aq)</td>
<td>Acrylates, Aminacrylates, C10-30 Alkyl PEG-20 Itaconate Copolymer</td>
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</tr>
<tr>
<td>C</td>
<td>DI Water</td>
<td>Water</td>
<td>10.0</td>
</tr>
<tr>
<td>D</td>
<td>Citric Acid (10% aq)</td>
<td>Citric Acid</td>
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<td>E</td>
<td>Cetquat SC-230M (2% aq)</td>
<td>Polyaquaternium-10</td>
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<tr>
<td>E</td>
<td>Cetquat SC-240C (2% aq)</td>
<td>Polyaquaternium-10</td>
<td>4.5</td>
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<td>F</td>
<td>JEESILC PS-CMLV</td>
<td>Cyclopentasiloxane, Bis-Vinyl Dimethicone/Dimethicone Copolymer</td>
<td>1.0</td>
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<tr>
<td>F</td>
<td>JEECIDE CAP-5</td>
<td>Phenoxyethanol, Caprylyl Glycol, Potassium Sorbate, Water, Hexylene Glycol</td>
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<tr>
<td>G</td>
<td>Marixyl 3000</td>
<td>Glycerin &amp; Water &amp; Butylene Glycol &amp; Carbomer &amp; Polyisobutene-30 &amp; Palmitoyl Oligopeptide &amp; Palmitoyl Tetrapeptide-3</td>
<td>2.0</td>
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<tr>
<td>H</td>
<td>JEECHEM FS-102</td>
<td>Hexylene Glycol, PEG-25 Hydrogenated Castor Oil, PEG-40 Hydrogenated Castor Oil</td>
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<tr>
<td>H</td>
<td>Fragrance</td>
<td>Fragrance</td>
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<tr>
<td>I</td>
<td>FD&amp;C #40 (0.2%)</td>
<td>FD&amp;C #40</td>
<td>q.s.</td>
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<tr>
<td>Total</td>
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<td>100.0</td>
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**Procedure:**

1. Heat A to 64-70°C  
2. Premix Phase B ingredients and add to A. Mix for 15 minutes.  
3. Premix C and add to A+B.  
4. Add D.  
5. Add E one at a time.  
6. Cool the batch to 40°C.  
7. Add Phase F ingredients one at a time and mix well.  
8. Add Phase G and mix well.  
9. Pre-mix Phase H and add to the batch. Add Phase I and mix well.

You Can Count On Us!…..Clearly your choice for Specialty Polymers…..
Formulating with JEESILC® Silicone Gels: Featuring: JEESILC® PS-DMLV

The JEESILC® line! The latest in our Patented Specialty Silicone Series of Quality Ingredients!

Product Description

JEESILC® PS-DMLV

INCI: Dimethicone, Bis-Vinyl Dimethicone/Dimethicone Copolymer

JEESILC® PS-DMLV has the highest refractive index of all the PS Ingredients. This product provides a gloss that will bounce back again and again for lip applications. The substantivness of JEESILC® PS-DMLV is sure to boost the film integrity of your formulation, doing so without a drying effect. This film will create a ‘moisture barrier’ that will keep the skin hydrated, while imparting a conditioning feel. JEESILC® PS-DMLV is a clear, non-volatile, viscous liquid with a high concentration of Bis-Vinyl Dimethicone/Dimethicone Copolymer.

Have peace of mind when you formulate! JEEN holds application patents for all ingredients utilizing Bis-Vinyl Dimethicone/ Dimethicone Copolymer, you have the freedom to formulate without infringing on application patents by your competition. Use this silicone polymer to increase the viscosity of non-polar solvents, thus enhancing the feel and spreadability. The linear, non-crosslinked nature of the unique Copolymer leads to one of the key benefits-ease of incorporation into the oil phase of emulsions without high shear agitation.

Applications

- Color Cosmetics
- Sun Care
- Hair Care
- Skin Care

Benefits

- Patented, Non-Crosslinked Polymer allows freedom to formulate
- Uniform spread with no balling upon application
- Non-Volatile Gel delivers Silky, Smooth finish
- Low Viscosity Gel allows ease of use for less formulation and production time

Product Specifications:

Appearance @ 25°C
Clear to Light Straw Liquid

Viscosity, cps @ 25°C
(Brookfield LVT, Sp.#4, @ 0.6 rpm):
7,000 – 15,000

General Handling and Storage:
- Store in Clean Dry Area
- Ambient Room Temperature

Suggested Formulation

Hair Combing Cream J3/67A

<table>
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<tr>
<th>Ingredients</th>
<th>INCI Nomenclature</th>
<th>%</th>
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<tr>
<td>DI Water</td>
<td>Water</td>
<td>87.9</td>
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<td>Carbopol Ultra 10</td>
<td>Carbomer</td>
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<tr>
<td>TEA 99%</td>
<td>Triethanolamine</td>
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<td>Glycerin 99</td>
<td>Glycerin</td>
<td>2.0</td>
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<tr>
<td>Inadmer #600</td>
<td>Cap 22 Alkyl Acrylate/Methacrylic Acid Cross Polymer</td>
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<tr>
<td>JEESILC® DMC</td>
<td>PEG-12 Dimethicone</td>
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<td>JEESILC® PS-DMLV</td>
<td>Dimethicone &amp; Bis Vinyl Dimethicone/Dimethicone Copolymer</td>
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<tr>
<td>JEEOQUAT® CT-29</td>
<td>Cetrimonium Chloride</td>
<td>0.5</td>
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<tr>
<td>Botanical’s Plus Conditioning Herbal Extract Blend</td>
<td>Arnica (Arnica Montana) Extract &amp; Echinacea (Echinacea Purpurea) Extract &amp; Horsetail Extract &amp; Rosemary Extract</td>
<td>1.0</td>
</tr>
<tr>
<td>JEECIDE® CAP-5</td>
<td>Phenoxethanol &amp; Caprylyl Glycol &amp; Potassium Sorbate &amp; Water &amp; Hexylene Glycol</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100.0</td>
</tr>
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Procedure:
1. Disperse the Ultrez 10 into water while stirring and mix until fully dispersed for 15 minutes.
2. Add in the TEA and mix well.
3. Add in all other ingredients one at a time and mix well.

Standard Packaging:
- 400 lb Drum (181.43 kg)
- 33 lb Pail (14.96 kg)

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Formulating with JEESILC® Silicone Gels: 
Featuring: **JEESILC® PS-VHLV**

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### JEESILC® PS-VHLV

**INCI:** Isododecane, Bis-Vinyl Dimethicone/Dimethicone Copolymer

JEESILC® PS-VHLV boasts the lightest feeling gel, while still providing a high gloss profile that is unmatched by any other volatile carrier. Enhance film integrity and improve moisturization with this silicone gel in a manner that maintains comfort to the skin or hair. Minimize the negative effects associated with Isododecane, like defattening skin, by using this polymer. JEESILC® PS-VHLV lends itself to enhancing long wear and transfer resistance for color cosmetic applications.

Have peace of mind when you formulate! JEEN holds application patents for all ingredients utilizing Bis-Vinyl Dimethicone/Dimethicone Copolymer, you have the freedom to formulate without infringing on application patents. Use this silicone polymer to increase the viscosity of non-polar solvents, thus enhancing the feel and spreadability. The linear, non-crosslinked nature of the unique Copolymer leads to one of the key benefits—ease of incorporation into the oil phase of emulsions without high shear agitation.

### Applications

- Color Cosmetics
- Skin Care
- Sun Care
- Hair Care
- AP/DEO

### Benefits:

- Provides Enhanced Film Properties to Skin and Hair
- Delivers a Volatile Regenerating High Gloss with Extended Wear Profile
- Offers an Elegant Feeling Film

### Product Specifications:

**Appearance @ 25°C:** Clear to Light Straw Colored Viscous Liquid

**Viscosity, cps @ 25°C:** 7,000 – 15,000

**Color (Gardner):** 1.0 Max.

**General Handling and Storage:**
- Store in Clean Dry Area
- Ambient Room Temperature

### Standard Packaging:
- 400 lb Drum (181.43 kg)
- 33 lb Pail (14.96 kg)

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**Matt Concealer Stick J1/7C**

<table>
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<th>Ingredients</th>
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<td>45.05</td>
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<td>JEESILC® PS-VHLV</td>
<td>Isododecane and Bis-Vinyl/dimethicone/Dimethicone Copolymer</td>
<td>15.30</td>
</tr>
<tr>
<td>JEENATE® 4H</td>
<td>Polyethylene</td>
<td>5.10</td>
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<tr>
<td>JEENATE® 5H</td>
<td>Polyethylene</td>
<td>1.30</td>
</tr>
<tr>
<td>TiO₂</td>
<td>Titanium Dioxide and Methicone</td>
<td>18.10</td>
</tr>
<tr>
<td>Spheron L-1500</td>
<td>Silica</td>
<td>6.50</td>
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<td>Ganzpearl GPA-550</td>
<td>Nylon 12</td>
<td>6.50</td>
</tr>
<tr>
<td>Red Iron Oxide St</td>
<td>Iron Oxide and Methicone</td>
<td>0.60</td>
</tr>
<tr>
<td>Black Iron Oxide St</td>
<td>Iron Oxide and Methicone</td>
<td>0.35</td>
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<tr>
<td>Yellow Iron Oxide St</td>
<td>Iron Oxide and Methicone</td>
<td>1.20</td>
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</table>

**Specifications:**
- **Appearance:** Soft, waxy stick
- **Procedure:**
  1) Blend all powders in an Osterizer and mix on high for 5 minutes
  2) Add all oils and waxes to main tank and heat to 75-80°C.
  3) Add powders to oils and waxes and homogenize until smooth

---

You Can Count On Us!.....Clearly your choice for Specialty Polymers.....

JEEN International Corporation

24 Madison Road
Fairfield, New Jersey 07004
Tel#: 973-439-1401
Fax#: 973-439-1402
Email: info@jeen.com
Website: www.jeen.com
Formulating with JEELUX® Silicone Esters:
Featuring: **JEELUX® VHIPIS, JEELUX® DMIPIS**

The JEELUX® line! The latest in our Patented Specialty Silicone Series of Quality Ingredients!

**Product Description**

**JEELUX® VHIPIS**
INCI: Isopropyl Isostearate, Isododecane, Bis Vinyl Dimethicone/Dimethicone Copolymer

**JEELUX® DMIPIS**
INCI: Isopropyl Isostearate, Dimethicone, Bis Vinyl Dimethicone/Dimethicone Copolymer

Utilizing plant derived Isopropyl Isostearate, this aids JEELUX VHIPIS and DMIPIS to act as a lubricant on the skins surface, providing a soft and smooth appearance. With options of both Dimethicone and Isododecane solvents, you have the ability to formulate with a volatile or non-volatile carrier. Being a dry Ester, Isopropyl Isostearate combined with either Dimethicone or Isododecane gives you the option to formulate with plenty of ‘slip’, or just a little ‘slip’. These Silicone Ester combinations can also be used as D5 replacements.

Have peace of mind when you formulate! JEEN holds application patents for all ingredients utilizing Bis-Vinyl Dimethicone/Dimethicone Copolymer, you have the freedom to formulate without infringing on application patents. The linear, non-crosslinked nature of the unique Copolymer leads to one of the key benefits-ease of incorporation into the oil phase of emulsions without high shear agitation.

**Applications**

- Color Cosmetics
- Sun Care
- Hair Care
- Skin Care

**Benefits**

- Patented, Non-Crosslinked Polymer allows freedom to formulate
- Uniform spread with no balling upon application
- Non-Volatile Gel delivers Silky, Smooth finish
- Low Viscosity Gel allows ease of use for less formulation and production time

**Product Specifications:**

**Appearance @ 25°C**
Clear to Light Straw Liquid

**Viscosity, cps @ 25°C**
(Brookfield LVT, Sp.#4, @ 0.6 rpm):
- JEELUX VHIPIS: 200 – 1,000
- JEELUX DMIPIS: 600 – 800

**General Handling and Storage:**
- Store in Clean Dry Area
- Ambient Room Temperature

**Standard Packaging:**
- 400 lb Drum (181.43 kg)
- 33 lb Pail (14.96 kg)

**Face and Body Lotion J5-55A&B**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredients</th>
<th>INCI Nomenclature%</th>
<th>%A</th>
<th>%B</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Jeelux® DMC 19</td>
<td>PEG/PPG-18/18 Dimethicone</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeecem® GMS-165</td>
<td>Glyceryl Stearate/PEG-100 Stearate</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>A</td>
<td>Jeenate® 2H</td>
<td>Polyethylene</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>A</td>
<td>Jeelux® DMIPIS</td>
<td>Isopropyl Isostearate, Dimethicone &amp; Bis-Vinyl Dimethicone/Dimethicone Copolymer</td>
<td>-</td>
<td>29.6</td>
</tr>
<tr>
<td>B</td>
<td>Glycerin</td>
<td>Glycerin</td>
<td>5.7</td>
<td>5.7</td>
</tr>
<tr>
<td>B</td>
<td>Water</td>
<td>Water</td>
<td>51.2</td>
<td>51.2</td>
</tr>
<tr>
<td>B</td>
<td>Jeecide® CAP-5</td>
<td>Phenoxethanol, Caprylyl Glycol, Hexylene Glycol, Potassium Sorbate</td>
<td>0.8</td>
<td>0.8</td>
</tr>
<tr>
<td>B</td>
<td>Xanthan Gum</td>
<td>Xanthan Gum</td>
<td>1.1</td>
<td>1.1</td>
</tr>
</tbody>
</table>

**Procedure:**

1) Mix Phase A and heat to 70 – 75°C
2) In a separate vessel mix Phase B and heat to 70 – 75°C
3) Add Phase B to Phase A and mix
4) Cool to room temperature while mixing

**You Can Count On Us!.....Clearly your choice for Specialty Polymers.....**
JEEN International Corporation

Formulating with JEELUX® Silicone Esters: Featuring: JEELUX® VHIPM, JEELUX® DMIPM

NEW!

The JEELUX® line! The latest in our Patented Specialty Silicone Series of Quality Ingredients!

Product Description

JEELUX® VHIPM
INCI: Isopropyl Myristate, Isododecane, Bis Vinyl Dimethicone/Dimethicone Copolymer

JEELUX® DMIPM
INCI: Isopropyl Myristate, Dimethicone, Bis Vinyl Dimethicone/Dimethicone Copolymer

Bis-Vinyl Dimethicone/Dimethicone Copolymer accepts Isopropyl Esters into its gel system! With the addition of Isopropyl Myristate into our Isododecane and Dimethicone gels, you can achieve brand new textures and feels into a variety of applications. JEELUX® VHIPM and JEELUX® DMIPM will coat the skin or hair leaving behind a lubricious, silky feel that will separate your product from the competition.

Have peace of mind when you formulate! JEEN holds application patents for all ingredients utilizing Bis-Vinyl Dimethicone/Dimethicone Copolymer, you have the freedom to formulate without infringing on application patents. The linear, non-crosslinked nature of the unique Copolymer leads to one of the key benefits-ease of incorporation into the oil phase of emulsions without high shear agitation.

Applications

- Color Cosmetics
- Sun Care
- Hair Care
- Skin Care

Benefits
- Patented, Non-Crosslinked Polymer allows freedom to formulate
- Uniform spread with no balling upon application
- Non-Volatile Gel delivers Silky, Smooth finish
- Low Viscosity Gel allows ease of use for less formulation and production time

Product Specifications:

Appearance @ 25°C
Thick Gel

Foreign Matter
Free of Foreign Matter

Viscosity, cps @ 25° C (Brookfield LVT, Sp. #4, @ 0.6 rpm):
JEELUX® DMIPM: 600 – 800
JEELUX® VHIPM: 200 – 1,000

General Handling and Storage:
- Store in Clean Dry Area
- Ambient Room Temperature

Standard Packaging:
- 450 lb Drum (204.11 kg)
- 40 lb Pail (18.14 kg)

Suggested Formulation

Men's After Shave Balm J4-73A&B

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient(s)</th>
<th>INCI Nomenclature</th>
<th>% A</th>
<th>% B</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>DI Water</td>
<td>Water</td>
<td>86.4</td>
<td>86.4</td>
</tr>
<tr>
<td>A</td>
<td>Glycerin 99</td>
<td>Glycerin</td>
<td>3.00</td>
<td>3.00</td>
</tr>
<tr>
<td>A</td>
<td>Allantoin</td>
<td>Allantoin</td>
<td>0.10</td>
<td>0.10</td>
</tr>
<tr>
<td>A</td>
<td>ISESILC DS-8</td>
<td>PEG-8 Dimethicone</td>
<td>3.00</td>
<td>3.00</td>
</tr>
<tr>
<td>B</td>
<td>JEELUX® DMIPM</td>
<td>Isopropyl Myristate &amp; Dimethicone &amp; Bis-Vinyl Dimethicone Copolymer</td>
<td>4.00</td>
<td>-</td>
</tr>
<tr>
<td>B</td>
<td>JEELUX® VHIPM</td>
<td>Isopropyl Myristate, Isododecane, Bis-Vinyl Dimethicone/Dimethicone Copolymer</td>
<td>-</td>
<td>4.00</td>
</tr>
<tr>
<td>B</td>
<td>Pemulen TR-1</td>
<td>Acrylates/C10-30 Alkyl Acrylate Cross Polymer</td>
<td>0.40</td>
<td>0.40</td>
</tr>
<tr>
<td>B</td>
<td>JEELPLEX® SFO</td>
<td>Euterpe Oleracea (Acai) Fruit Oil &amp; Punica Granatum (Pomegranate) Seed Oil</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>B</td>
<td>Fragrance</td>
<td>Fragrance</td>
<td>0.30</td>
<td>0.30</td>
</tr>
<tr>
<td>C</td>
<td>JEECIDE CAP-5</td>
<td>Phenoxyethanol &amp; Capryl Glycol &amp; Potassium Sorbate &amp; Water &amp; Hexylene Glycol</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>D</td>
<td>TEA 99</td>
<td>Triethanolamine</td>
<td>0.80</td>
<td>0.80</td>
</tr>
<tr>
<td>E</td>
<td>Citric Acid</td>
<td>Adjust pH to 6.0 – 7.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Procedure:
1. Add the water of Phase A to the main tank and mix with prop agitation
2. Add in the Glycerin, Allantoin and Jeesilc DS-8 and mix well.
3. Add Phase B ingredients one at a time to Phase A. Mix for 15 minutes with homogenizing agitation.
4. Switch to prop agitation and add Phase C and mix well.
5. Add Phase D and mix until batch is smooth.
6. Adjust pH with Citric Acid.

JEELUX® Series

Silicone

Suggested Formulation

You Can Count On Us!…..Clearly your choice for Specialty Polymers…..
Formulating with JEELUX® Silicone Esters:
Featuring: JEELUX® VHIPP, JEELUX® DMIPP

The JEELUX® line! The latest in our Patented Specialty Silicone Series of Quality Ingredients!

**Product Description**

**JEELUX® VHIPP**  
INCI: Isopropyl Palmitate, Isododecane, Bis Vinyl Dimethicone/Dimethicone Copolymer

**JEELUX® DMIPP**  
INCI: Isopropyl Palmitate, Dimethicone, Bis Vinyl Dimethicone/Dimethicone Copolymer

Enhance your formulations using Isopropyl Palmitate! With the addition of our Bis-Vinyl Dimethicone/Dimethicone Copolymer in solvents of Dimethicone or Isododecane, these Silicone Ester blends will leave your skin softer. Increase moisturization in a volatile or non-volatile carrier. **JEELUX® VHIPP** or **JEELUX® DMIPP**, deciding between our solvents gives you the ability to formulate a heavier or lighter feel, you make the choice!

Have peace of mind when you formulate! JEEEN holds application patents for all ingredients utilizing Bis-Vinyl Dimethicone/Dimethicone Copolymer, you have the freedom to formulate without infringing on application patents by your competition. The linear, non-crosslinked nature of the unique Copolymer leads to one of the key benefits-ease of incorporation into the oil phase of emulsions without high shear agitation.

**Applications**

- Color Cosmetics
- Sun Care
- Hair Care

**Benefits**

- **Patented, Non-Crosslinked Polymer allows freedom to formulate**
- Uniform spread with no balling upon application
- Delivers Silky, Smooth finish
- Low Viscosity Gel allows ease of use for less formulation and production time

**Product Specifications:**

**Appearance @ 25°C**

**Thick Gel**

**Viscosity, cps @ 25°C**

(Brookfield LVT, Sp.#4, @ 0.6 rpm):

JEELUX® DMIPP: 800 – 1,200  
JEELUX® VHIPP: 200 – 1,000

**General Handling and Storage:**

- Store in Clean Dry Area
- Ambient Room Temperature

**Standard Packaging:**

- 450 lb Drum (204.11 kg)
- 40 lb Pail (18.14 kg)

**Vitamin C Gel Stick Formulation J8-15**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredients</th>
<th>INCI Nomenclature</th>
<th>%A</th>
<th>%B</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>12 Hydroxystearic Acid</td>
<td></td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeelux® VHIPP</td>
<td>Isopropyl Palmitate, Isododecane, Bis Vinyl Dimethicone/Dimethicone Copolymer</td>
<td>-</td>
<td>85.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeelux® DMIPP</td>
<td>Isopropyl Palmitate, Dimethicone, Bis Vinyl Dimethicone/Dimethicone Copolymer</td>
<td>85.0</td>
<td>-</td>
</tr>
<tr>
<td>A</td>
<td>L-Ascorbic Acid</td>
<td>L-Ascorbic Acid</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

**Procedure:**

1.) Place all ingredients in the tank and increase temperature to 75 °C – 80 °C while mixing.
2.) Pour at 70 °C-75 °C and let cool.

**Contact Information:**

24 Madison Road  
Fairfield, New Jersey 07004  
Tel#: 973-439-1401  
Fax#: 973-439-1402  
Email: info@jeen.com  
Website: www.jeen.com

You Can Count On Us!.....Clearly your choice for Specialty Polymers.....
Formulating with JEELUX® Silicone Esters: Featuring: JEELUX® V2T, JEELUX® D2T

The JEELUX® line! The latest in our Patented Specialty Silicone Series of Quality Ingredients!

Product Description

JEELUX® V2T
INCI: Triisostearyl Citrate, Isododecane, Bis-Vinyl Dimethicone/Dimethicone Copolymer

JEELUX® D2T
INCI: Triisostearyl Citrate, Dimethicone, Bis-Vinyl Dimethicone/Dimethicone Copolymer, Isohexadecane

Improve your film integrity with JEELUX® V2T and JEELUX® D2T. These Silicone Ester blends produce a “Bonding Matrix” that is strong enough to hold color, actives, sunscreens and emollients in a natural and comfortable manner. The occulsive nature of this material allows for the addition of ingredients that becomes part of the matrix without affecting adhesion or the integrity of the film. This bond will provide sustained integration of actives on to the skin or hair. Lower levels of JEELUX® V2T or JEELUX® D2T reduce film thickness creating an invisible lasting mesh. Higher levels of JEELUX® V2T and JEELUX D2T increase film thickness and provide a HIGH GLOSS layer. With Dimethicone and Isododecane, you have the choice of a volatile or non-volatile JEELUX product that will lay down the most comfortable film on the market.

Applications:

- Creams/Lotions
- Make-up
- Moisturizers
- Sun Care
- Lip Care
- Hair Care

Benefits:

- Ease of use
- Slick feel without tack
- Light feel
- Moisturizing
- Transfer resistant
- Long wear
- Comfortable
- Gentle adhesion

Product Specifications:

Appearance @ 25°C: Clear Liquid

Refractive Index @ 25°C: 1.42 – 1.43

Viscosity, cps @ 25°C (Brookfield HB, Sp#4, @ 20 rpm):
JEELUX V2T: 4,500 – 6,500
JEELUX D2T: 500 – 1,000

General Handling and Storage:

- Store in Clean Dry Area
- Ambient Room Temperature

Standard Packaging:
- 450 lb Drum (204.11 kg)
- 40 lb Pail (18.14 kg)

Suggested Formulation

Jeelux D2T Soft Lipstick J6-95A&B

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredients</th>
<th>INCI Nomenclature</th>
<th>%A</th>
<th>%B</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Jeelux D2T</td>
<td>Isododecane, Dimethicone, Triisostearyl Citrate, Bis-Vinyl Dimethicone/Dimet hicone Copolymer</td>
<td>25.0</td>
<td>-</td>
</tr>
<tr>
<td>A</td>
<td>Jeelux V2T</td>
<td>Isododecane, Triisostearyl Citrate, Bis-Vinyl Dimethicone/Dimet hicone Copolymer</td>
<td>-</td>
<td>25.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeechem ISNP</td>
<td>Isostearyl Neopentanoate</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeelse LMDF</td>
<td>Dimethicone, Bis-Vinyl Dimethicone/Dimethicone Copolymer</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>A</td>
<td>Avocado Oil</td>
<td>Avocado (Persea Gratissima) Oil</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeelse 282</td>
<td>Amodimethicone</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>A</td>
<td>Permethyl 101A</td>
<td>Isododecane</td>
<td>10.0</td>
<td>10.0</td>
</tr>
<tr>
<td>A</td>
<td>Lxfest 7</td>
<td>Neopentyl Glycol Dihexanoate</td>
<td>14.5</td>
<td>14.5</td>
</tr>
<tr>
<td>A</td>
<td>Lxfest 350</td>
<td>Dipentaerythritol Hexa C5-C9 Acid Ester</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>B</td>
<td>CASID HSA</td>
<td>12 Hydroxy stearic Acid</td>
<td>1.7</td>
<td>1.7</td>
</tr>
<tr>
<td>B</td>
<td>Jeenate SH</td>
<td>Polyethylene</td>
<td>6.0</td>
<td>6.0</td>
</tr>
<tr>
<td>B</td>
<td>Jeenate 3H</td>
<td>Polyethylene</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>B</td>
<td>JEECIDE® CAP-2</td>
<td>Phenoxyethanol &amp; Caprylyl Glycol &amp; Hexylene glycol</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>C</td>
<td>IN46RYC</td>
<td>Red 6 Ca</td>
<td>6.0</td>
<td>6.0</td>
</tr>
<tr>
<td>C</td>
<td>INVP7ECA</td>
<td>Red iron Oxide</td>
<td>6.0</td>
<td>6.0</td>
</tr>
<tr>
<td>C</td>
<td>INVP7EB</td>
<td>Black iron Oxide</td>
<td>0.4</td>
<td>0.4</td>
</tr>
<tr>
<td>D</td>
<td>Kobonica 9.25</td>
<td>Mica</td>
<td>2.7</td>
<td>2.7</td>
</tr>
<tr>
<td>D</td>
<td>Kitz Super Silver</td>
<td>Mica (and) TiO2</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Procedure:

1.) Mix Phase A while increasing temperature to 80-85C
2.) Add Phase B and mix
3.) Add Phase C and mix.
4.) Add Phase D and mix.
5.) Pour at 80-85C and chill.

You Can Count On Us!.....Clearly your choice for Specialty Polymers....
Formulating with JEELUX® Silicone-Ester / Emulsifier Blend: Featuring: JEELUX® D2T Aquabase

The JEELUX® line! The latest in our Patented Specialty Silicone Series of Quality Ingredients!

JEELUX® D2T Aquabase

INCI: Isohexadecane Dimethicone, (and) Triisosteryl Citrate, Bis-Vinyl Dimethicone / Dimethicone Copolymer, Polyethylene, Cetyl PEG/PPG-10 Dimethicone

JEELUX® D2T Aquabase combines the “Bonding Matrix”of JEELUX® D2T in an emulsifier blend. This makes it easy to create silicone emulsions. In stick or in a cream, create solid emulsions that contain high levels of water. Deliver color, actives, sunscreens and emollients in a novel sensorial product form. High water levels allow for higher levels of actives, extracts. The JEELUX® D2T Aquabase is a light ester/silicone combination that can substitute for volatile solvents while still providing a very dry but velvety slip.

Have peace of mind when you formulate! JEEN holds application patents for all ingredients utilizing Bis-Vinyl Dimethicone/ Dimethicone Copolymer, you have the freedom to formulate without infringing on application patents. Use this silicone polymer to increase the viscosity of non-polar solvents, thus enhancing the feel and spreadability. The linear, non-crosslinked nature of the unique Copolymer leads to one of the key benefits-ease of incorporation into the oil phase of emulsions without high shear agitation.

Product Description

Applications:

- Creams/Lotions
- Make-up
- Moisturizers
- Sun Care
- Lip Care
- Sun Care

Recommended Use Levels: 7.5 – 12.5%

Benefits:

- Ease of use
- Slick feel without tack
- Light feel
- Moisturizing
- Transfer resistant
- Long wear
- Comfortable
- Gentle adhesion
- Refreshing

Product Specifications:

Appearance @ 25°C

Solid

Melt Point:

51.0 – 56.0°C

General Handling and Storage:

- Store in Clean Dry Area
- Ambient Room Temperature

Standard Packaging:

450 lb Drum (204.11 kg)
40 lb Pail (18.14 kg)

NEW!

Suggested Formulation

Skin Active Formulation J6-74A JM

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredients</th>
<th>INCI Nomenclature</th>
<th>Supplier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Jeelux® D2T</td>
<td>Isohexadecane, Dimethicone, Triisosteryl Citrate, Bis-Vinyl Dimethicone / Dimethicone Copolymer</td>
<td>JEEN Int'l</td>
<td>7.5</td>
</tr>
<tr>
<td>A</td>
<td>Jeelux® D2T Aquabase</td>
<td>Isohexadecane, Dimethicone, Triisosteryl Citrate, Bis-Vinyl Dimethicone / Dimethicone Copolymer</td>
<td>JEEN Int'l</td>
<td>7.5</td>
</tr>
<tr>
<td>A</td>
<td>Jeenate® 5H</td>
<td>Polyethylene</td>
<td>JEEN Int'l</td>
<td>8.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeenate® 3H</td>
<td>Polyethylene</td>
<td>JEEN Int'l</td>
<td>2.5</td>
</tr>
<tr>
<td>A</td>
<td>Jeesilc® 153</td>
<td>Dimethiconol, Dimethicone</td>
<td>JEEN Int'l</td>
<td>5.0</td>
</tr>
<tr>
<td>A</td>
<td>Permethyl 101A</td>
<td>Polyethylene</td>
<td>Presperse</td>
<td>16.0</td>
</tr>
<tr>
<td>A</td>
<td>Jeesilc® 282</td>
<td>Amodimethicone</td>
<td>JEEN Int'l</td>
<td>0.20</td>
</tr>
<tr>
<td>A</td>
<td>Di Water</td>
<td>Distilled water</td>
<td>40.5</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Glycerine</td>
<td>99% Glycerine</td>
<td>JEEN Int'l</td>
<td>5.00</td>
</tr>
<tr>
<td>A</td>
<td>Jeecide® CAP-5</td>
<td>Phenoxyethanol &amp; Capryllyl Glycol, Potassium Sorbate &amp; Hexylene glycol</td>
<td>JEEN Int'l</td>
<td>0.80</td>
</tr>
<tr>
<td>B</td>
<td>SP-500</td>
<td>Nylon</td>
<td>Kobo</td>
<td>0.50</td>
</tr>
<tr>
<td>B</td>
<td>Kobomica S-25</td>
<td>Mica</td>
<td>Kobo</td>
<td>2.00</td>
</tr>
<tr>
<td>C</td>
<td>BP – Glucan MC</td>
<td>Beta Glucan MC</td>
<td>Botanicals Plus</td>
<td>0.10</td>
</tr>
<tr>
<td>C</td>
<td>BP – Biopelptide SC</td>
<td>Selenium Biopelptide</td>
<td>Botanicals Plus</td>
<td>0.10</td>
</tr>
<tr>
<td>C</td>
<td>BP – Ceramide LC S-20</td>
<td>Ceramide/BC/choles terol/fatty acid</td>
<td>Botanicals Plus</td>
<td>0.20</td>
</tr>
<tr>
<td>C</td>
<td>Matrixil 3000</td>
<td>Glycerin &amp; Butylene Glycol &amp; Water &amp; Carboner &amp; Polysorbate 20 &amp; Palmitol &amp; Oligopeptide &amp; Palmitol &amp; Tetrapeptide-3</td>
<td>Sederma</td>
<td>0.50</td>
</tr>
<tr>
<td>C</td>
<td>WE70U</td>
<td>TiO2</td>
<td>Kobo</td>
<td>3.00</td>
</tr>
<tr>
<td>C</td>
<td>WE70B</td>
<td>Black IO</td>
<td>Kobo</td>
<td>0.04</td>
</tr>
<tr>
<td>C</td>
<td>WE55Y</td>
<td>Yellow IO</td>
<td>Kobo</td>
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<tr>
<td>C</td>
<td>WE55R</td>
<td>Red IO</td>
<td>Kobo</td>
<td>0.1</td>
</tr>
</tbody>
</table>

Procedure:

1. Mix Phase A while increasing temperature to 80-85C
2. Mix Phase B in with Phase A until homogenous
3. Add Phase C to mix until homogenous
4. Pour at 80-85C and chill

You Can Count On Us!…..Clearly your choice for Specialty Polymers…..
Formulating with JEESILC® Silicone Emulsifier Blend:
Featuring: **JEESILC® DMBF & VHBF AQUABASE**

The JEESILC® Line! The latest in our Patented Specialty Silicone Series of Quality Ingredients.

**Product Description**

**JEESILC® DMBF AQUABASE**

INCI: Dimethicone, (and) Bis-Vinyl Dimethicone / Dimethicone Copolymer, Cetyl PEG/PPG-10 Dimethicone

**JEESILC® VHBF AQUABASE**

INCI: Isododecane, Cetyl PEG/PPG-10 Dimethicone, Bis-Vinyl Dimethicone/Dimethicone Copolymer

**JEESILC® AQUABASES** are emulsifying blends dispersed in JEESILC DMBF and JEESILC VHBF. These silicone blends can be easily dropped into water making your emulsion formulation simple to produce in both lab and production settings.

**JEESILC® AQUABASES** will create skin conditioning emulsions. In stick or cream formulations; solid emulsions contain high levels of water. Deliver color, actives, sunscreens and emollients in a novel sensorial product form. High water levels allow for higher levels of actives, extracts.

Have peace of mind when you formulate! Use this silicone polymer to increase the viscosity of non-polar solvents, thus enhancing the feel and spreadability. The linear, non-cross-linked nature of the unique Copolymer leads to one of the key benefits-ease of incorporation into the oil phase of emulsions without high shear agitation.

**Applications:**

- Creams/Lotions
- Make-up
- Moisturizers
- Sun Care
- Lip Care
- Sun Care

Recommended Use Levels:

7.5% - 12.5%

**Benefits:**

- Easy to use
- Slick feel without tack
- Light feel
- Moisturizing
- Transfer resistant
- Long wear
- Comfortable
- Gentle adhesion
- Refreshing
- Cold process
- DMBF – Non volatile
- VHBF - Volatile

**Appearance:**

Hazy Liquid

**Viscosity, cps @ 25°C:**

3,000 – 8,000

**General Handling and Storage:**

- Store In Clean Dry Area
- Ambient Room Temperature

**Standard Packaging:**

- 450 lb Drum (204.11 kg)
- 40 lb Pail (18.14 kg)

**Aqua elastomer 40% H2O, DMBF**

Formulation J6-89JN

<table>
<thead>
<tr>
<th>Phase</th>
<th>Emulsion</th>
<th>INCI Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>JEESILC DMBF AQUABASE</td>
<td>Dimethicone, Bis-Vinyl Dimethicone/Dimethicone Copolymer, Cetyl PEG/PPG-10 Dimethicone</td>
<td>8.0</td>
</tr>
<tr>
<td>A</td>
<td>JEECUDE CAP 6</td>
<td>Phenoxyethanol &amp; Caprylyl Glycol, Potassium Sorbate &amp; Hexylene glycol</td>
<td>1.0</td>
</tr>
<tr>
<td>A</td>
<td>JEESILC PS-DMBF</td>
<td>Dimethicone, Bis-Vinyl Dimethicone/Dimethicone Copolymer</td>
<td>18.7</td>
</tr>
<tr>
<td>A</td>
<td>JEESILC DM-153</td>
<td>DIMETHICONE, DIMETHICONOL</td>
<td>15.3</td>
</tr>
<tr>
<td>E</td>
<td>DI Water</td>
<td>Distilled water</td>
<td>40.0</td>
</tr>
</tbody>
</table>

**Procedure:**

1.) Mix Phase A while increasing temperature to 80-85°C
2.) Mix Phase B and heat to 80-85°C
3.) Add Phase B to Phase A mix until homogenous
4.) Pour at 80-85°C and chill

You Can Count On Us!

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of JEEN International Corporation. The data on this sheet relates only to the specific material designated herein.

**You Can Count On Us!.....Clearly your choice for Specialty Polymers.....**
JEEN International’s Formulating Guide

Formulating with JEEN’s Jeesilc PS
Bis-Vinyl Dimethicone/Dimethicone Copolymer

Bis-Vinyl Dimethicone/Dimethicone Copolymer has an outstanding range of functions and attributes. It will increase the viscosity of certain solvents leading to their sensorial enhancement. Formula functionalities, such as; transfer resistant products, long wear, long lasting shine, conditioning, plumping, skin care, sun care, can all be produced.

Bis-Vinyl Dimethicone/Dimethicone Copolymer produces a “Bonding Matrix”. This bond is formed on the surface of skin or hair. The bond will also occur with the ingredients in the formula. This allows a formulator to produce a very comfortable, flexible, and movable film without compromising the adhesive nature of the matrix.

The Copolymers inherent oil thickening properties can be synergistically combined with other materials that thicken oils.

- Waxes, silica’s, can produce unique product textures.
- Stability can be achieved while producing pleasing textures.
- Softer lipsticks that don’t sweat are possible.

Solvent selection is the first step. Generally non-polar solvents work best. Introduction of low polarity solvents can be used with the proper solubility profile. Table 1 provides a quick look at JEEN’s Jeesilc PS Series available solvents and their functions.

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Volatile</th>
<th>Non-volatile</th>
<th>Conditioning</th>
<th>Shine</th>
</tr>
</thead>
</table>
| Isododecane            | JEESILC PS-VH
                        | JEESILC PS-VHLV
                        | JEESILC PS-VHBF
                        | N/A
                        | N/A
| Cyclomethicone         | JEESILC PS-CM
                        | JEESILC PS-CMLV
                        | JEESILC PS-CMBF
                        | N/A
                        | N/A
| Isohexadecane          | JEESILC PS-IHDLV
                        | JEESILC PS-IHDBF
                        | *
                        | *
| Phenyl Trimethicone    | JEESILC PS-PILV
                        | *
                        | *
| Dimethicone            | JEESILC PS-DMLV
                        | JEESILC PS-DMBF
                        | *
                        | *

Listed solvents can be mixed to enhance formula attributes.

The solvents listed in table 1 can be mixed to achieve the desired attributes. Mixing of these solvents will lead to an expansion of the “Solubility Profile” available to formulators, providing a variety of formula textures, attributes, and function.
Jeelsilc PS series copolymer is available in two forms, the Jeelsilc-PS (BF) and the Jeelsilc-PS (LV) series.

- Jeelsilc PS (BF) products are gels which can be used to increase viscosity, and change a solvents sensorial profile.
- Jeelsilc PS (LV) products are pourable, copolymer, providing a formulator the opportunity to use a polymer at high levels of use.

**Jeelux Silicone/Ester Selection**

Exploration of the solubility profiles of our Jeelsilc-PS line has contributed to the extension of JEEN’s silicone family of products. JEEN now offers our Bis-Vinyl Dimethicone/Dimethicone Copolymer in a variety of solvents. The Jeelux line provides a selection of Esters that reduces the difficulties of formulating with silicone polymers. The solubility of these esters into our silicone polymer expands the possibilities for textures and attributes when formulating with silicones.

<table>
<thead>
<tr>
<th></th>
<th>Ester</th>
<th>Isopropyl Palmitate</th>
<th>Isopropyl Myristate</th>
<th>Isopropyl Isostearate</th>
<th>Tristearin Citrate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JEELUX</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jeelux VHIPP</td>
<td></td>
<td></td>
<td>Jeelux VHIPM</td>
<td>Jeelux V2T</td>
</tr>
<tr>
<td></td>
<td>Jeelux DMIPP</td>
<td></td>
<td></td>
<td>Jeelux DMIPM</td>
<td>Jeelux D2T</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Jeelux DMIPIS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Jeelux D8F2T</td>
<td></td>
</tr>
</tbody>
</table>

Table 2: Commercially Available Jeelux Products
Formulating by Function

Transfer Resistant
Select a volatile solvent from the following, Isododecane, Cyclomethicone, or a Volatile Dimethicone. Solvents listed in table 1 and ester combinations mentioned in table 2 can be combined to achieve desired results of the dry time, shine, film thickness, level of transfer resistance, and plasticity of the film.

Use levels can range from 5% to 80% with lower levels producing an invisible film, whereas a higher level results in a thicker film.

Suggested products would be:
  - Jeelux V2T
  - Jeesilc-PS VHLV

Long Wear
A long wear product can be made using a volatile solvent, non-volatile solvent, or a combination of both. Choice of solvent will affect wear, shine, and the tack of the product.

- Wear properties are attributable to the amount of polymer.
- For a shinier product Dimethicone, Isohexadecane, and Phenyl Trimethicone are preferred.

Suggested products would be:
  - Jeelux V2T, Jeelux D2T, Jeelux DBF2T
  - Jeesilc DMLV, Jeesilc VHLV, Jeesilc PTLV

Plumping
Lip products are typical product forms that claim to have a “plumping” effect. Pluming denotes a consumer’s sensation of having a thick, substantive film on their lips. This sensation is easily achieved by using combinations of Jeelux and Jeesilc. Higher viscosity dimethicones are well known for producing very substantive films. A dilatant material increases viscosity when shear is applied. Dimethicones are considered dilatant.
This behavior produces a sensation of thickening when a consumer moves their lips thus leading to a sensation of Plumping.

Suggested products would be:
  - Jeelux D2T, Jeelux DBF2T, Jeelux DBF2T
  - Jeesilc DMBF, Jeesilc VHBF

Conditioning/Emolliency
Dimethicones are very well known skin conditioners. The esters used in the Jeelux’s will provide emmolliency. The esters provided will afford the formulator with various options. A lighter ester provides for quick penetration whereas a heavier ester allow for an increase in film substantivity. B-VD/DC polymer provides the additional value of providing longer wear.

Suggested products would be:
  - Jeelux D2T, Jeelux DBF2T, Jeelux VHIPP, Jeelux DMIPP
  - Jeelux VHIPP, Jeelux DMBF, Jeelux DMIPP, Jeelux VHBF
Formulating Tips For Bis-Vinyl Dimethicone/Dimethicone Copolymer Products

1. All Jeesilc-PS and Jeelux series contain Bis-Vinyl Dimethicone/Dimethicone Copolymer. Solvents listed in table 1 are soluble in this polymer. This allows the use of these solvents in any Jeesilc or Jeelux. If you are using Jeesilc-PS VHBF and you want to increase dry time, add Isohexadecane. To decrease dry time, add Isododecane.

2. Ester such as Isopropyl Palmitate, Isopropyl Myristate, and Isopropyl Isostearate are soluble in Jeesilc gels and in Jeelux’s. Any ester made from Isopropanol would be soluble as well. This can be helpful when trying to manipulate sensorial profiles. Jeelux DMIPIS can be combined with DMLV if a plumping effect is needed.

3. The same polymer in all our systems makes for a very flexible ingredient. Create a formula using a Jeesilc or Jeelux. Switch the Jeesilc or Jeelux in that formula very easily and change the feel, function and attributes of that formula.

4. Solvent’s listed in table 1 can be used to aid in adding ingredients that are not soluble to your formula.

5. Dimethicones of low or high viscosity, volatile or non-volatile can be used.

6. Jeesilc and Jeelux are very flexible in performing many functions. Transfer resistant, long wear, plumping, shiny, matte, conditioning, emolliency, active delivery and all are produced with the same polymer.

7. Waxes (natural, synthetic) are compatible. Behenates (glyceryl behenate, behenyl behenate, pentaerythritol behenate) are known for their ability to gel silicone.

8. Dimethiconols in, cyclomethicone or dimethicones, are soluble in the Jeesilc or Jeelux Lines.

9. Emulsifiers (non-ionic, anionic, and cationic) can be used.

10. Colorants, pigments and pearlescent ingredients can be used. A pigment wetter can reduce surface tension and increase homogeneity as well as pigment dispersion. Jeesilc DMC 19 (PEG/PPG-18/18 Dimethicone) is an excellent choice.

11. Cationic ingredients such as Bentones, or amides can aid in wear properties but will reduce the viscosity of the gel.

12. Fluorosilicone ingredients such as Jeesilc F-15 (Perfluorononyl Dimethicone) can aid in long wear properties.

13. Fumed Silica can be used to create mousse/soufflé like textures.

14. Solubility profiles can be developed by mixing ingredient of interest with Jeelux or Jeesilc. Start at 10% by weight of ingredient of interest to 90% of Jeesilc/Jeelux. If clear, it’s soluble. If hazy add solvents from table 1 until sample blend are clear. Continue this process until a solubility profile for ingredient of interest is achieved.
**A NEW PARADIGM IN LONG WEAR PRODUCTS**

JEELUX® Combines the Emolliency of Esters, Conditioning of Dimethicone, and the Gentle Functionality of our JEESILC® Polymer.

**Efficacy study of JEELUX® and a combination of JEELUX® and JEENATE®**

**JEELUX® Results**

- Increase Elasticity and Moisture
- Caring Long Wear Products
- Functional as well as Beneficial
- Can be used in any Product Form
- **JEENATE® 2H** Improved Elasticity and Moisture
- Increase Elasticity and Moisture when using Isododecane
- Ask for our JEESILC® / JEELUX® Formulary Guide